

**Docket: 010029**  
**PATENT****PENDING CLAIMS AS AMENDED**

Please amend the claims as follows:

1. Cancel.
2. Cancel.
3. Cancel.
4. Cancel.
5. Cancel.
6. Cancel.
7. Cancel.
8. Cancel.
9. Cancel.
10. Cancel.
11. Cancel.
12. Cancel.
13. Cancel.
14. Cancel.
15. (Currently Amended) A remote station apparatus comprising:  
an adaptation model containing acoustic pattern information; and  
an adaptation engine ~~for performing~~ configured to perform pattern matching of acoustic feature vectors against the acoustic pattern information to identify a selected feature vector modification function, and ~~applying~~ configured to apply the selected feature vector modification function to the acoustic feature vectors to produce a set of modified acoustic feature vectors for processing by a voice recognition engine using a central acoustic model larger than the adaptation model; and  
a communications interface for communicating the modified acoustic feature vectors to the voice recognition engine.
16. (Original) The remote station apparatus of claim 15 further comprising a control processor for evaluating the performance of the selected feature vector modification function and adjusting the selected feature vector modification function based on the evaluating.

Attorney Docket No.: 010029

Customer No.: 23696

2

**Docket: 010029****PATENT**

17. (Original) The remote station apparatus of claim 15 further comprising a memory for storing at least one set of parameters corresponding to a set of feature vector modification functions, wherein the selected feature vector modification function is a member of the set of feature modification functions.

18. (Original) The remote station apparatus of claim 17 wherein the memory contains more than one set of parameters corresponding to a set of feature vector modification functions, and wherein each set of parameters corresponds to a specific speaker.

19. (Original) The remote station apparatus of claim 17 wherein the memory contains more than one set of parameters corresponding to a set of feature vector modification functions, and wherein each set of parameters corresponds to a different acoustic environment.

20. Cancel.

21. Cancel.

22. Cancel.

23. Cancel.

24. Cancel.

25. Cancel.

26. Cancel.

27. Cancel.

28. Cancel.

29. Cancel.

30. Cancel.

31. Cancel.

32. (Currently Amended) A method performed in a remote station, the method ~~of performing voice recognition~~ comprising:

~~at a remote station,~~ performing adaptation pattern matching of acoustic feature vectors with an adaptation model stored in the remote station;

**Docket: 010029**  
**PATENT**

~~at the remote station,~~ selecting, based on the pattern matching, a feature vector modification function from feature vector modification function information stored at the remote station, ~~wherein the selecting a feature vector modification function is based on the pattern matching;~~

~~at the remote station,~~ applying the selected feature vector modification function to the acoustic feature vectors to form a set of modified acoustic feature vectors for processing by a voice recognition engine using a central acoustic model larger than the adaptation model; and

sending the modified acoustic feature vectors from the remote station to the voice recognition engine of a communications center.

33. (Original) The method of claim 32 wherein the feature vector modification function information is speaker-dependent.

34. (Original) The method of claim 32 further comprising modifying the feature vector modification function information based on the adaptation pattern matching.

35. (Original) The method of claim 32 further comprising modifying the feature vector modification function information at the remote station based on information received from the communications center.

36. (Original) The method of claim 32 further comprising performing voice recognition at the remote station, wherein the performing voice recognition comprises performing voice recognition pattern matching of the modified acoustic feature vectors with an acoustic model stored in the remote station.

37. (Original) The method of claim 36 further comprising modifying the feature vector modification function information at the remote station based on the voice recognition pattern matching.

38. (Original) The method of claim 32 wherein the feature vector modification function information is environment-dependent.

**Docket: 010029**  
**PATENT**

- 39. Cancel.
- 40. Cancel.
- 41. Cancel.
- 42. Cancel.
- 43. Cancel.
- 44. Cancel.
- 45. Cancel.
- 46. Cancel.
- 47. Cancel.
- 48. Cancel.

- 49. (Currently Amended) A remote station apparatus comprising:

means for performing adaptation pattern matching of acoustic feature vectors with an adaptation model stored in the remote station;

means for selecting a feature vector modification function from feature vector modification function information stored at the remote station, wherein the selecting a feature vector modification function is based on the pattern matching;

means for applying the selected feature vector modification function to the acoustic feature vectors to form a set of modified acoustic feature vectors for processing by a voice recognition engine using a central acoustic model larger than the adaptation model; and

means for sending the modified acoustic feature vectors to the recognition engine in a communications center.